



# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 138296**

**TO: Shailendra Kumar**  
**Location: 5c03 / 5c18**  
**Saturday, November 20, 2004**  
**Art Unit: 1621**  
**Phone: 272-0640**  
**Serial Number: 10 / 765602**

**From: Jan Delaval**  
**Location: Biotech-Chem Library**  
**Rem 1A51**  
**Phone: 272-2504**

**[jan.delaval@uspto.gov](mailto:jan.delaval@uspto.gov)**

### **Search Notes**

Jan please

Access DB# 138296

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: S. Kumar Examiner #: 64544 Date: 11/19/04  
Art Unit: 162 Phone Number: 2-0640 Serial Number: 10/765 602  
Mail Box and Bldg/Room Location: REM 5C03 Results Format Preferred (circle): PAPER DISK E-MAIL  
5C18

If more than one search is submitted, please prioritize searches in order of need.

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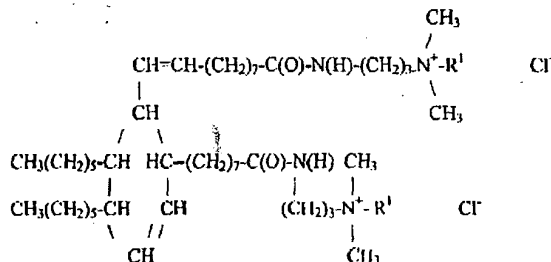
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Dimeramido propyl dimethyl quaternary compounds  
Inventors (please provide full names): Anthony J. O'Lenick Jr. et al.

Earliest Priority Filing Date: 1/28/2004

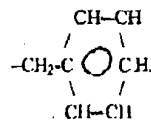
\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Claim 1 (Amended). A quaternary compound conforming to the following structure:



wherein;

R<sup>1</sup> is selected from the group consisting of -CH<sub>3</sub>, -CH<sub>2</sub>-CH(OH)CH<sub>2</sub>OH and



Claim 2 (Original). A quaternary compound of claim 1 wherein R<sup>1</sup> is -CH<sub>3</sub>.

Claim 3 (Cancel)

Searcher Phone #: <u>22504</u>	AA Sequence (#) <u>✓</u>	Dialog <u>✓</u>
Searcher Location: _____	Structure (#) <u>✓</u>	Questel/Orbit _____
Date Searcher Picked Up: <u>11/20</u>	Bibliographic _____	Dr. Link _____
Date Completed: <u>11/20</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep. Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: <u>10</u>	Patent Family _____	WWW/Internet _____
Online Time: <u>410</u>	Other _____	Other (specify) _____

=> fil reg

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STRUCTURE FILE UPDATES: 18 NOV 2004 HIGHEST RN 784112-11-4  
 DICTIONARY FILE UPDATES: 18 NOV 2004 HIGHEST RN 784112-11-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

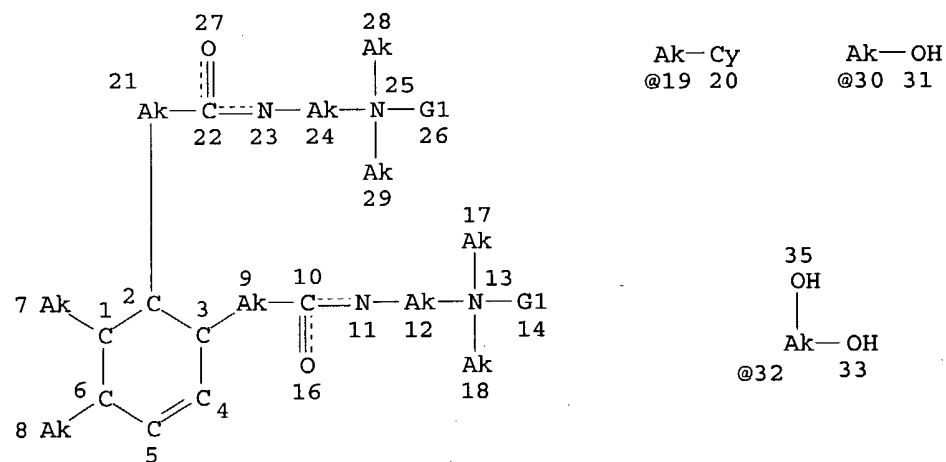
Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
 information enter HELP PROP at an arrow prompt in the file or refer  
 to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que l6

L3 STR



VAR G1=AK/30/32/19

NODE ATTRIBUTES:

CONNECT IS M1 RC AT 20

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 33

STEREO ATTRIBUTES: NONE

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L6 2 SEA FILE=REGISTRY ABB=ON PLU=ON L5/COM

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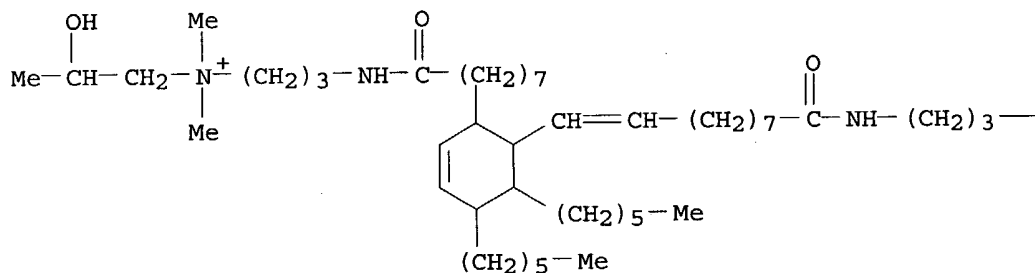
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 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: USES (Uses)

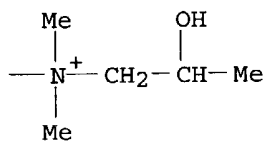
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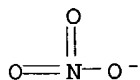


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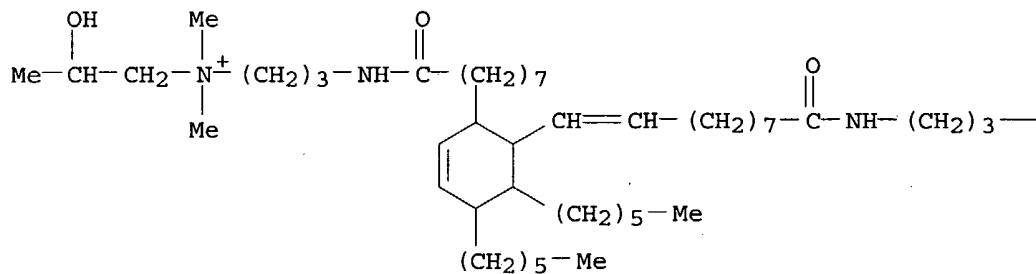
1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 118:256656

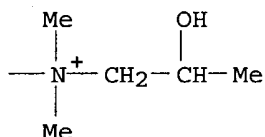
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NAME)  
 FS 3D CONCORD  
 MF C52 H102 N4 O4  
 CI COM  
 SR CA

PAGE 1-A



PAGE 1-B



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SET COST OFF

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 L3 STR L1  
 L4 1 S L3 CSS SAM  
 L5 4 S L3 CSS FUL  
 SAV L5 KUMAR765/A  
 L6 2 S L5/COM

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L7 0 S L6

FILE 'HCAPLUS' ENTERED AT 16:49:29 ON 20 NOV 2004

L8 1 S L6

FILE 'USPATFULL, USPAT2' ENTERED AT 16:50:00 ON 20 NOV 2004

L9 0 S L6

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FILE 'HCAPLUS' ENTERED AT 16:50:20 ON 20 NOV 2004

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FILE COVERS 1907 - 20 Nov 2004 VOL 141 ISS 22  
FILE LAST UPDATED: 18 Nov 2004 (20041118/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 18 all hitstr

L8 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1993:256656 HCAPLUS  
DN 118:256656  
ED Entered STN: 26 Jun 1993  
TI Coating of plastic moldings after treatment with quaternary ammonium compound  
IN Akeboshi, Koji; Uohashi, Hiromichi; Shimizu, Shigeru; Hayashibe, Kunihiro  
PA Nihon GE Plastics, Ltd., Japan; Yoshimura Oil Chemical Co., Ltd.  
SO Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM C08J007-04  
ICS B05D003-10; B05D007-02  
CC 42-2 (Coatings, Inks, and Related Products)  
Section cross-reference(s): 46

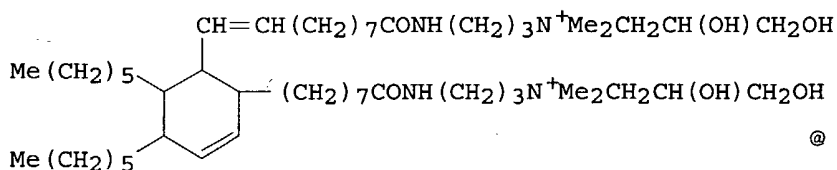
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04202336	A2	19920723	JP 1990-333351	19901129
PRAI	JP 1990-333351		19901129		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 04202336	ICM	C08J007-04
	ICS	B05D003-10; B05D007-02

GI



AB Plastic moldings such as automobile bumpers or bodies are treated with surfactants containing  $\geq 30\%$  (non)cyclic dimer or trimer acid-based quaternary ammonium compds. before coating with primers to ensure low surface resistivity and give smooth top coatings. A GTX 6006

(polyamide-polyoxyphenylene blend) molding was soaked in aqueous H<sub>3</sub>PO<sub>4</sub>, washed with water, dried, soaked in iso-PrOH containing 1% I (Elic PS 920), and dried at 75° to give a sheet with resistivity 2.3 + 108 Ω-cm initially and 7.7 + 108 Ω-cm after 30 min at 160°, vs. 6.8 + 108 and 1012, resp., with C<sub>17</sub>H<sub>35</sub>CONH(CH<sub>2</sub>)<sub>3</sub>N+Me<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OH NO<sub>3</sub>- instead of I.

ST dimer acid ammonium surfactant primer; trimer acid ammonium surfactant primer; automobile coating primer surfactant pretreatment; bumper automobile coating surfactant

IT Surfactants  
(ammonium compds., plastic moldings treated by, for primer and topcoat smoothness)

IT Coating process  
(of plastic moldings, surfactant treatment in, for primer and topcoat smoothness)

IT Automobiles  
(bumpers, coating of, ammonium surfactant in, for primer and topcoat smoothness)

IT **147831-24-1**  
RL: USES (Uses)  
(surfactants, plastic moldings pretreated by, for primer and topcoat smoothness)

IT **147831-24-1**  
RL: USES (Uses)  
(surfactants, plastic moldings pretreated by, for primer and topcoat smoothness)

RN 147831-24-1 HCAPLUS

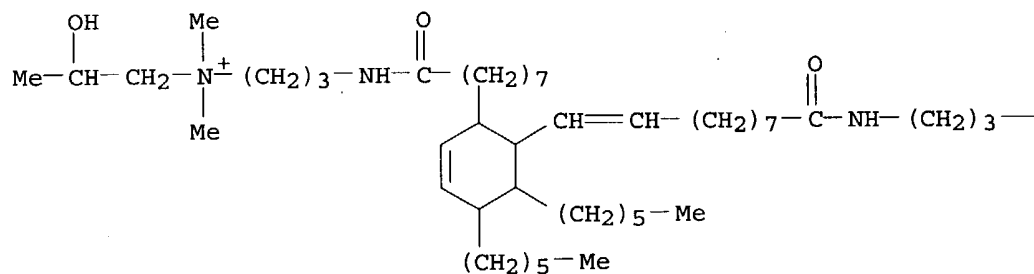
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CM 1

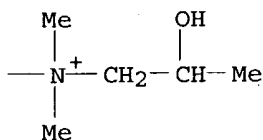
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CMF C52 H102 N4 O4

PAGE 1-A



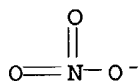
PAGE 1-B



CM 2

CRN 14797-55-8

CMF N O3



=&gt; =&gt; fil marpat

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FILE CONTENT: 1988-PRESENT (VOL 141 ISS 20) (20041112/ED)

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(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6787678 07 SEP 2004

DE 10309682 09 SEP 2004

EP 1457483 15 SEP 2004

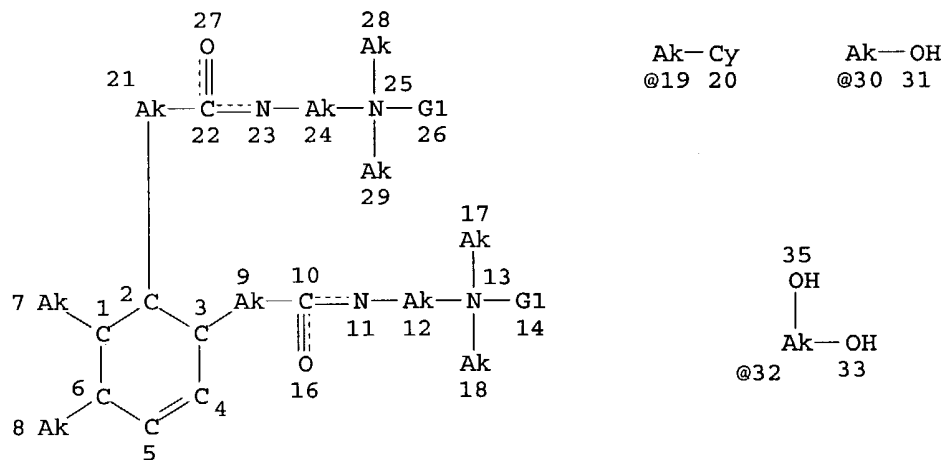
JP 2004247640 02 SEP 2004

WO 2004083203 30 SEP 2004

Structure search limits have been raised. See HELP SLIMIT for the new, higher limits.

=&gt; d sta que

L3 STR



VAR G1=AK/30/32/19

NODE ATTRIBUTES:

CONNECT IS M1 RC AT 20

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 33



STEREO ATTRIBUTES: NONE

L11 3 SEA FILE=MARPAT CSS FUL L3

L12 0 SEA FILE=MARPAT ABB=ON PLU=ON L11/COM

=> => fil beil

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FILE RELOADED ON OCTOBER 20, 2002

FILE LAST UPDATED ON NOVEMBER 3, 2004

FILE COVERS 1771 TO 2004.

\*\*\* FILE CONTAINS 9,073,068 SUBSTANCES \*\*\*

>>>PLEASE NOTE: Reaction Data and substance data are stored in  
separate documents and can not be searched together in one query.  
Reaction data for BEILSTEIN compounds may be displayed  
immediately with the display codes PRE (preparations) and REA  
(reactions). A substance answer set retrieved after the search  
for a chemical name, a compounds with available reaction  
information by combining with PRE/FA, REA/FA or more generally  
with RX/FA. The BEILSTEIN Registry Number (BRN) is the link  
between a BEILSTEIN compound and belonging reactions. For mo  
detailed reaction searches BRNs can be searched as reaction  
partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

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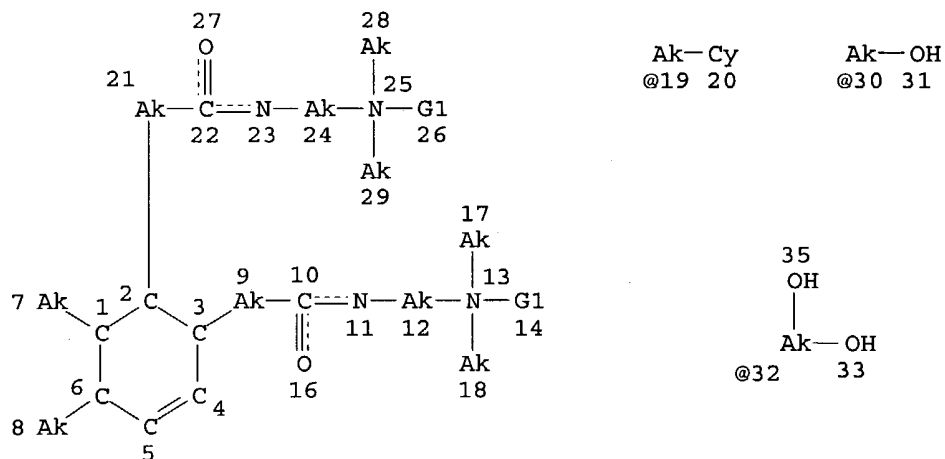
NEW

\* PATENT NUMBERS (PN) AND BABS ACCESSION NUMBERS (BABSAN) CAN NOW BE  
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ALL PATENT REFERENCES, OR ALL BABS ACCESSION NUMBERS FOR A  
COMPOUND AT A GLANCE.

=> d sta que

L3

STR



VAR G1=AK/30/32/19

NODE ATTRIBUTES:

CONNECT IS M1 RC AT 20

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

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NUMBER OF NODES IS 33

STEREO ATTRIBUTES: NONE

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0 ANSWERS

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SET COST OFF

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L3 STR L1

L4 1 S L3 CSS SAM

L5 4 S L3 CSS FUL

SAV L5 KUMAR765/A

L6 2 S L5/COM

FILE 'HCAOLD' ENTERED AT 16:49:26 ON 20 NOV 2004

L7 0 S L6

FILE 'HCAPLUS' ENTERED AT 16:49:29 ON 20 NOV 2004

L8 1 S L6

FILE 'USPATFULL, USPAT2' ENTERED AT 16:50:00 ON 20 NOV 2004

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L12 0 S L11/COM

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